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L2	1181	(380/28).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/23 16:04
L3	82	(380/263).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/23 16:04
L4	698	(380/46).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/23 16:15
L5	223	(380/45).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/23 16:15
L6	197	(380/259).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/23 16:16
L7	154	(380/260).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/23 16:16
L8	82	(380/263).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/23 16:16
L9	1045	(380/277).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/23 16:16


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by Matick, R. E.; Paperback, Edition: 1

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Vigmond, E.J.; Aguel, F.; Trayanova, N.A.;
[Engineering in Medicine and Biology Society, 2001. Proceedings of the 23rd Annual International Conference of the IEEE](#)
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- 2. **Algorithms for solving nonlinear equation systems assist students to become problem solvers**
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 1 [Technical poster session 1: multimedia analysis, processing, and retrieval: Security of human video objects by incorporating a chaos-based feedback cryptographic scheme](#)

Tzouveli Paraskevi, Ntalianis Klimis, Kollias Stefanos
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Publisher: ACM Press

Full text available:  pdf(241.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Security of multimedia files attracts more and more attention and many encryption methods have been proposed in literature. However most cryptographic systems deal with multimedia files as binary large objects, without taking into consideration regions of semantic information. These regions may need better protection or can be the only regions that need protection, depending on the specific application. Towards this direction, in this paper we propose a human video object encryption system ba ...

Keywords: chaos, cryptographic systems, face and body detection, human video objects, logistic map

 2 [Principles and applications of chaotic systems](#)

William Ditto, Toshinori Munakata
November 1995 **Communications of the ACM**, Volume 38 Issue 11

Publisher: ACM Press

Full text available:  pdf(319.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

There lies a behavior between rigid regularity and randomness based on pure chance. It's called a chaotic system, or chaos for short [5]. Chaos is all around us. Our notions of physical motion or dynamic systems have encompassed the precise clock-like ticking of periodic systems and the vagaries of dice-throwing chance, but have often been overlooked as a way to account for the more commonly observed chaotic behavior between these two extremes. When we see ...

 3 [Encryption: On the security of a clipped hopfield neural network-based cryptosystem](#)

Daniel Socek, Dubravko Culibrk
August 2005 **Proceedings of the 7th workshop on Multimedia and security MM&Sec '05**

Publisher: ACM Press

Full text available:  pdf(165.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A cryptosystem based on a clipped Hopfield neural network (CHNN) was recently proposed primarily for encryption of digital images and videos. The system is fast and suitable for hardware implementation. The present paper investigates the security aspects of the CHNN-based cryptosystem, and the following weaknesses are pointed out: 1) the cryptosystem is not sufficiently secure against the ciphertext-only attacks due to the weak randomness properties of the generated keystream, and 2) the cryptos ...

Keywords: cryptography, data security, neural networks, permutations, randomness

4 Papers: Polynomiography and applications in art, education, and science



Bahman Kalantari

July 2003 **Educators program from the 30th annual conference on Computer graphics and interactive techniques**

Publisher: ACM Press

Full text available:  pdf(466.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Polynomiography is the art and science of visualization in approximation of zeros of complex polynomials. Informally speaking polynomiography allows one to take colorful pictures of polynomials. These images can subsequently be recolored in many ways using one's own creativity and artistry. It has tremendous applications in visual arts, education, and science. The paper describes some of these applications. From the artistic point of view polynomiography can be used to create quite a diverse set ...

Keywords: fractals, scientific visualization, voronoi regions, weird math

5 GPGPU: general purpose computation on graphics hardware



David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available:  pdf(63.03 MB) Additional Information: [full citation](#), [abstract](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

6 MuPad



Alasdair McAndrew

July 1999 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  html(51.86 KB) Additional Information: [full citation](#), [index terms](#)

7 A practical secure physical random bit generator



Markus Jakobsson, Elizabeth Shriver, Bruce K. Hillyer, Ari Juels

November 1998 **Proceedings of the 5th ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available:  pdf(1.23 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Rendering and simulation: Physically-based visual simulation on graphics hardware 

Mark J. Harris, Greg Coombe, Thorsten Scheuermann, Anselmo Lastra

September 2002 **Proceedings of the ACM SIGGRAPH/EUROGRAPHICS conference on Graphics hardware**

Publisher: Eurographics Association

Full text available:  pdf(2.65 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we present a method for real-time visual simulation of diverse dynamic phenomena using programmable graphics hardware. The simulations we implement use an extension of cellular automata known as the coupled map lattice (CML). CML represents the state of a dynamic system as continuous values on a discrete lattice. In our implementation we store the lattice values in a texture, and use pixel-level programming to implement simple next-state computations on lattice nodes and their nei ...

Keywords: CML, coupled map lattice, graphics hardware, multipass rendering, reaction-diffusion, visual simulation

9 The auditorialization of scientific information 

 Robert S. Hotchkiss, Cheryl L. Wampler

August 1991 **Proceedings of the 1991 ACM/IEEE conference on Supercomputing**

Publisher: ACM Press

Full text available:  pdf(791.84 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 Fast detection of communication patterns in distributed executions 

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  pdf(4.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

11 Improved algorithms for synchronizing computer network clocks 

 David L. Mills

October 1994 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architectures, protocols and applications SIGCOMM '94**, Volume 24 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.37 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Network Time Protocol (NTP) is widely deployed in the Internet to synchronize computer clocks to each other and to international standards via telephone modem, radio

and satellite. The protocols and algorithms have evolved over more than a decade to produce the present NTP Version 3 specification and implementations. Most of the estimated deployment of 100,000 NTP servers and clients enjoy synchronization to within a few tens of milliseconds in the Internet of today. This paper ...

12 Risks to the public in computers and related systems 

 Peter G. Neumann

April 1990 **ACM SIGSOFT Software Engineering Notes**, Volume 15 Issue 2

Publisher: ACM Press

Full text available:  pdf(2.07 MB) Additional Information: [full citation](#), [index terms](#)

13 Formalizing the safety of Java, the Java virtual machine, and Java card 

 Pieter H. Hartel, Luc Moreau

December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Publisher: ACM Press

Full text available:  pdf(442.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We review the existing literature on Java safety, emphasizing formal approaches, and the impact of Java safety on small footprint devices such as smartcards. The conclusion is that although a lot of good work has been done, a more concerted effort is needed to build a coherent set of machine-readable formal models of the whole of Java and its implementation. This is a formidable task but we believe it is essential to build trust in Java safety, and thence to achieve ITSEC level 6 or Common Criteria ...

Keywords: Common criteria, programming

14 Wacky hardware: "Killer App" of wearable computing: wireless force sensing body protectors for martial arts 

 Ed H. Chi, Jin Song, Greg Corbin

October 2004 **Proceedings of the 17th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available:  pdf(2.30 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Ubiquitous and Wearable Computing both have the goal of pushing the computer into the background, supporting all kinds of human activities. Application areas include areas such as everyday environments (e.g. clothing, home, office), promoting new forms of creative learning via physical/virtual objects, and new tools for interactive design. In this paper, we thrust ubiquitous computing into the extremely hostile environment of the sparring ring of a martial art competition. Our system uses pie ...

Keywords: extreme sports, taekwondo, usability of wearable wireless systems, wearable computing, wireless computing

15 Superimposing encrypted data 

 K. W. Yu, Tong Lai Yu

February 1991 **Communications of the ACM**, Volume 34 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.91 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Much has been written about the necessity of processing data in the encrypted form.

However, no satisfactory method of processing encrypted data has been published to date. Ahitub et al. [2] have analyzed the possibilities of using some special algorithms to add encrypted data. Rivest et al. [10] have suggested the use of an algorithm based on homomorphic functions for processing encrypted data. The main limitation of this algorithm is that such functions can be broken by solving a set of I ...

16 Solving partial differential equations in a data-driven multiprocessor environment



J. L. Gaudiot, C. M. Lin, M. Hosseiniyar

May 1988 **ACM SIGARCH Computer Architecture News , Proceedings of the 15th Annual International Symposium on Computer architecture ISCA '88,**

Volume 16 Issue 2

Publisher: IEEE Computer Society Press, ACM Press

Full text available: [pdf\(856.94 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Partial differential equations can be found in a host of engineering and scientific problems. The emergence of new parallel architectures has spurred research in the definition of parallel PDE solvers. Concurrently, highly programmable systems such as data-flow architectures have been proposed for the exploitation of large scale parallelism. The implementation of some Partial Differential Equation solvers (such as the Jacobi method) on a tagged token data-flow graph is demonstrated here. As ...

17 Extending Java for high-level Web service construction



J. Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 6

Publisher: ACM Press

Full text available: [pdf\(947.02 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

18 There are no philosophic problems raised by virtual reality



J. Elkins

November 1994 **ACM SIGGRAPH Computer Graphics**, Volume 28 Issue 4

Publisher: ACM Press

Full text available: [pdf\(644.37 KB\)](#)

Additional Information: [full citation](#), [index terms](#)

19 7-2 Distributed, collaborative & clustered VRC: Minimising latency and maintaining consistency in distributed virtual prototyping



J. Marsh, M. Glencross, S. Pettifer, R. J. Hubbald, J. Cook, S. Daubrenet

June 2004 **Proceedings of the 2004 ACM SIGGRAPH international conference on Virtual Reality continuum and its applications in industry**

Publisher: ACM Press

Full text available: [pdf\(204.40 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes a computer aided design tool for mechanical engineering

applications, combining component assembly simulation, the modelling of rigid and flexible bodies and haptic interaction in a multi-user distributed virtual environment. It presents the research challenges encountered, and an architecture designed to address these.

20 [Breaking and provably repairing the SSH authenticated encryption scheme: A case](#) 

 [study of the Encode-then-Encrypt-and-MAC paradigm](#)

Mihir Bellare, Tadayoshi Kohno, Chanathip Namprempre

May 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7
Issue 2

Publisher: ACM Press

Full text available:  [pdf\(404.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The *secure shell* (SSH) protocol is one of the most popular cryptographic protocols on the Internet. Unfortunately, the current SSH authenticated encryption mechanism is insecure. In this paper, we propose several fixes to the SSH protocol and, using techniques from modern cryptography, we prove that our modified versions of SSH meet strong new chosen-ciphertext privacy and integrity requirements. Furthermore, our proposed fixes will require relatively little modification to the SSH protoc ...

Keywords: Authenticated encryption, secure shell, security proofs, stateful decryption

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Publication: Acta Mathematicae Applicatae Sinica (English Series)**Authors:** Wenxian Shen**Publisher:** Springer Berlin / Heidelberg**Issue:** Volume 5, Number 3**Pages:** 242 - 251**Excerpt:** In this paper, we have analysed the dynamical behavior of the Josephson Junction equation by numerical computation and the theory of dynamical systems. As $0 < \beta < 2/1 + \epsilon$, and ρ is not sufficiently large, we observed the intermittent chaotic behavior and the period-doubling chaotic behavior in ...

66^ 2. Least squares parameter estimation in chaotic differential equations

Publication: Celestial Mechanics and Dynamical Astronomy**Authors:** Josef Kallrath, Johannes P. Schlöder, Hans Georg Bock**Publisher:** Springer Netherlands**Issue:** Volume 56, Numbers 1-2**Pages:** 353 - 371**Excerpt:** A recent least squares algorithm, which is designed to adapt implicit models to given sets of data, especially models given by differential equations or dynamical systems, is reviewed and used to fit the Hénon-Heiles differential equations ...

66^ 3. Chaotic behaviour in the newton iterative function associated with kepler's equation

Publication: Celestial Mechanics and Dynamical Astronomy**Authors:** Laura Stumpf**Publisher:** Springer Netherlands**Issue:** Volume 74, Number 2**Pages:** 95 - 109**Excerpt:**

The chaotic behaviour observed when Newton's method is used to solve Kepler's equation is analysed using methods borrowed from

chaos theory. The result of the analysis is compared with previous results. A sufficient condition for convergence of a given iterative ...

6^o 4. Problem of closure of the equations for the average fields in nonlinear media containing chaotic inhomogeneties

Publication: Radiophysics and Quantum Electronics

Authors: S. N. Gurbatov, E. N. Pelinovskii, A. I. Saichev

Publisher: Springer New York

Issue: Volume 21, Number 10

Pages: 1032 - 1037

Excerpt: *This article does not have an abstract.*

6^o 5. An explicit construction of a class of suspensions and autonomous differential equations for diffeomorphisms in the plane

Publication: Communications in Mathematical Physics

Authors: Gottfried Mayer-Kress, Hermann Haken

Publisher: Springer Berlin / Heidelberg

Issue: Volume 111, Number 1

Pages: 63 - 74

Excerpt: From a large class of diffeomorphisms in the plane, which are known to produce chaotic dynamics, we explicitly construct their continuous suspension on a three dimensional cylinder. This suspension is smooth (C^1) and can be characterized by the ...

6^o 6. An Obstacle Avoidance Method for Chaotic Robots Using Angular Degree Limitations

Publication: Lecture Notes in Computer Science

Authors: Youngchul Bae, MaiRey Lee, Thomas M. Gatton

Publisher: Springer Berlin / Heidelberg

Issue: Volume 3982/2006

Pages: 244 - 250

Excerpt: This paper presents a method to avoid obstacles that have unstable limit cycles in a chaos trajectory surface using angular degree limits. It is assumed that all obstacles in the chaos trajectory surface have a Van der Pol equation with an unstable limit cycle. When a chaos robot meets an obstacle in ...

6^o 7. On the Chaotic Dynamics of a Spherical Pendulum with a Harmonically Vibrating Suspension

Publication: Nonlinear Dynamics

Authors: A. Y. T. Leung, J. L. Kuang

Publisher: Springer Netherlands

Issue: Volume 43, Number 3

Pages: 213 - 238

Excerpt: The equations of motion for a lightly damped spherical pendulum are considered. The suspension point is harmonically excited in both vertical and horizontal directions. The equations are approximated in the neighborhood ...

6^o 8. Complex nonlinear dynamics of the Hodgkin-Huxley equations induced by time scale changes

Publication: Biological Cybernetics

Authors: Shuhei Nabetani, Sadatoshi Kumagai, Shinji Doi

Publisher: Springer Berlin / Heidelberg

Issue: Volume 85, Number 1

Pages: 51 - 64

Excerpt: The Hodgkin-Huxley equations with a slight modification are investigated, in which the inactivation process (h) of sodium channels or the activation process of potassium channels (n) is slowed down. We show that the equations ...

 9. MOS Realization of the Conjectured Simplest Chaotic Equation

Publication: Circuits, Systems, and Signal Processing

Authors: Ahmed G. Radwan, Ahmed M. Soliman, Abdel-Latif El-Sedeek

Publisher: Birkhäuser Boston

Issue: Volume 22, Number 3

Pages: 277 - 285

Excerpt: This paper presents a general block diagram of a third-order linear differential equation using current mode techniques. The realization of the conjectured simplest chaotic equation of Elwakil and Kennedy based on $G_m - C$ technology is given. The metal ...

 10. A Semiclassical Theory of a Dissipative Henon—Heiles System

Publication: Journal of Statistical Physics

Authors: Bidhan Chandra Bag, Deb Shankar Ray

Publisher: Springer Netherlands

Issue: Volume 96, Numbers 1-2

Pages: 271 - 302

Excerpt: A semiclassical theory of a dissipative Henon—Heiles system is proposed. Based on γ -scaling of an equation for the evolution of the Wigner quasiprobability distribution function in the presence of dissipation and thermal diffusion, we derive a semiclassical equation for quantum fluctuations, governed ...

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WA Brock, DA Hsieh - 1991 - mitpress.mit.edu

Brock, Hsieh, and LeBaron show how the principles of chaos theory can be applied to such areas of economics and finance as the changing structure of stock returns ...

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TS Parker, LO Chua - 1989 - Springer-Verlag New York, Inc. New York, NY, USA

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LM Pecora, TL Carroll - Physical Review Letters, 1990 - APS

... $ax_3 - X_1)2](5X_1 - r + aX_3 - 3X) - 63ax_3 - 3X \dot{I} - 13X_2^2, /yx \dot{I}, Bc (ax_3 - x_1) \}$ The equations for x_1 and X_2 model the response circuit as well. For the chaotic regime the ...

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JD Farmer, JJ Sidorowich - Physical Review Letters, 1987 - APS

... We present a forecasting technique for chaotic data. ... it to several examples, including data from the Mackey-Glass delay differential equation, Rayleigh-Benard ...

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... been introduced to describe anomalous kinetics of simple dynamical systems with chaotic motion. We consider a symmetrized fractional diffusion equation with a ...

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